

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

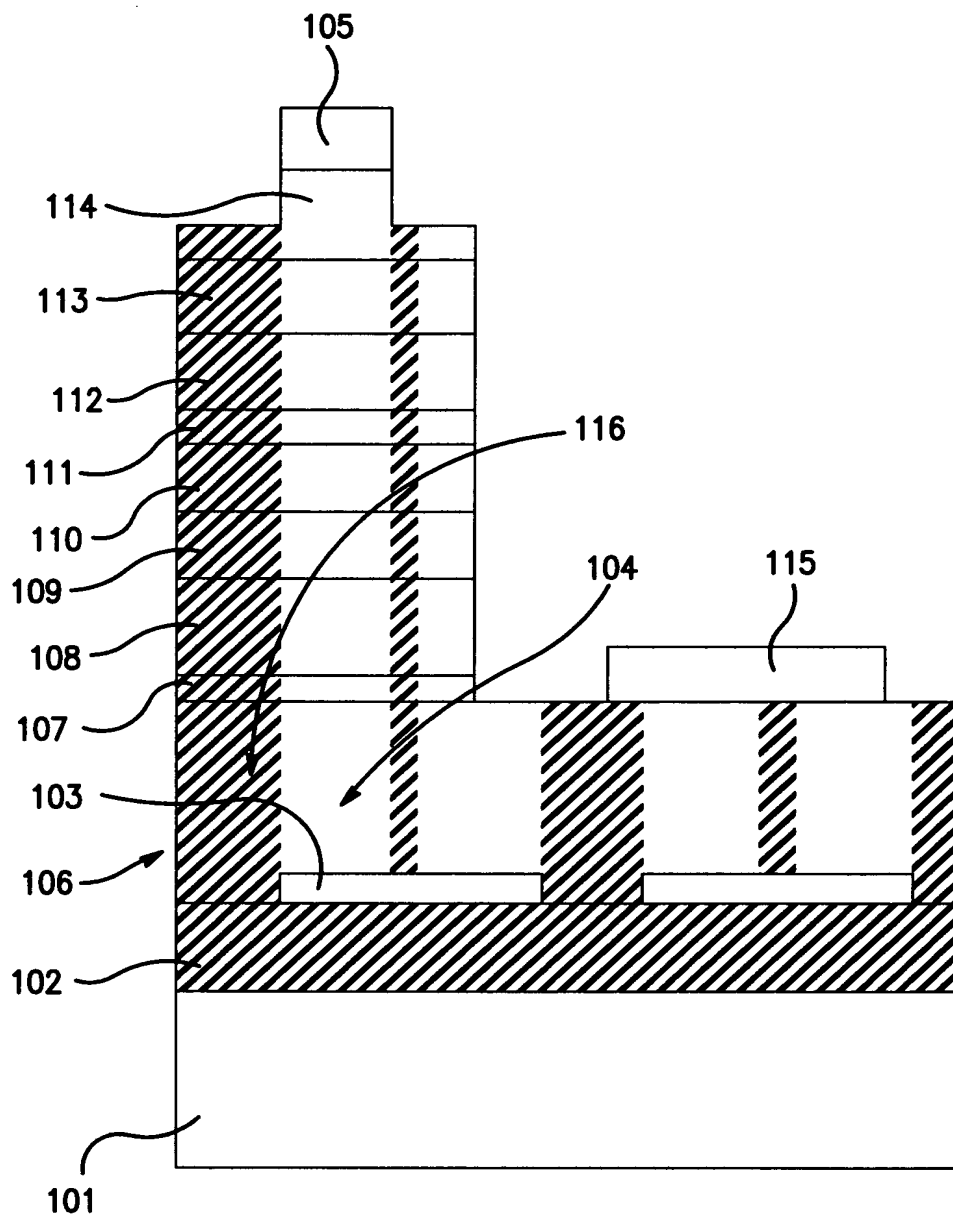
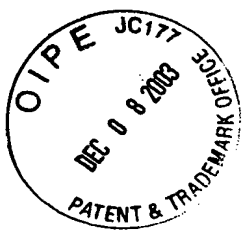


FIG. 1
PRIOR ART

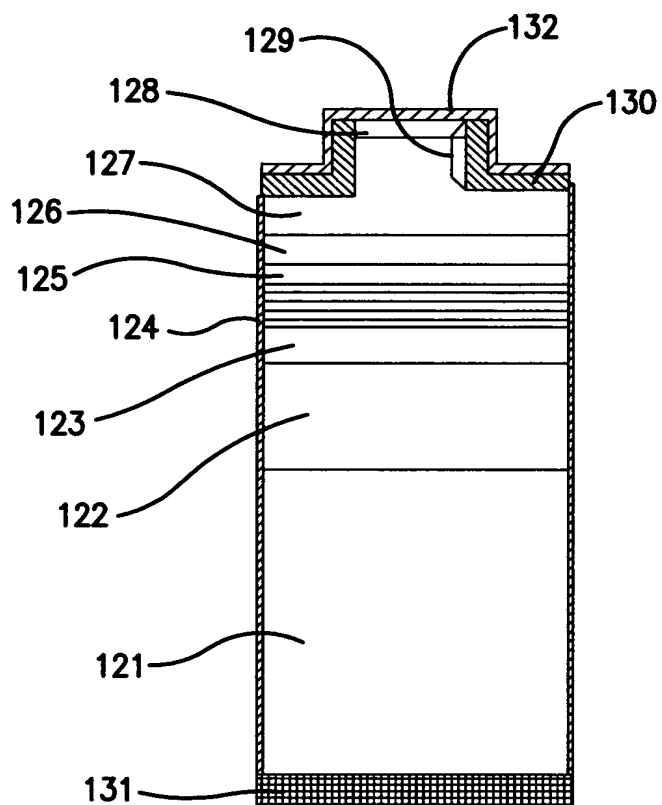
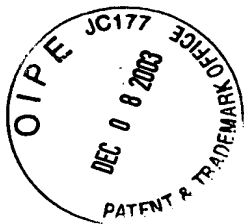


FIG. 2
PRIOR ART



MQW

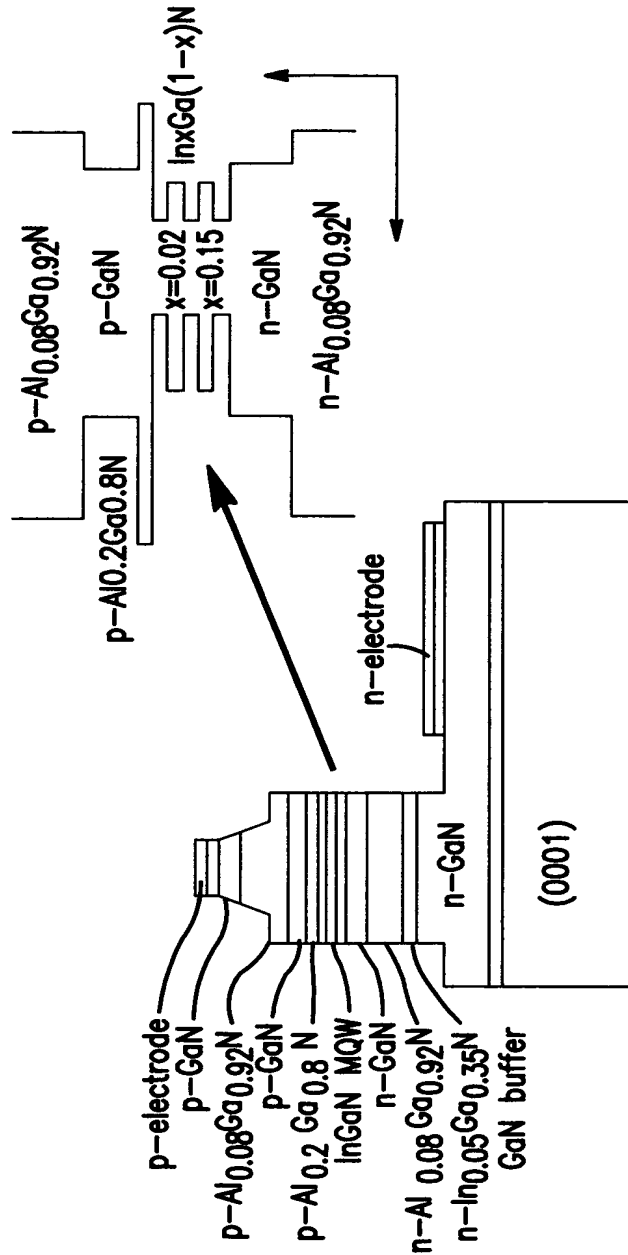


FIG. 3
PRIOR ART

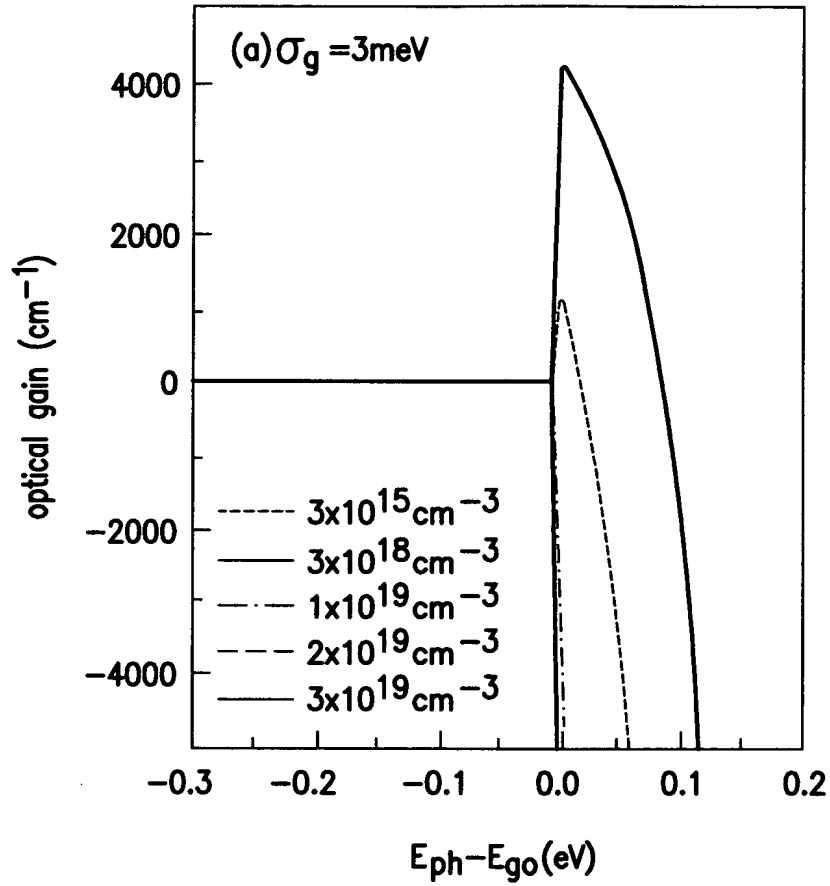
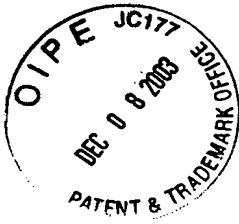


FIG. 4

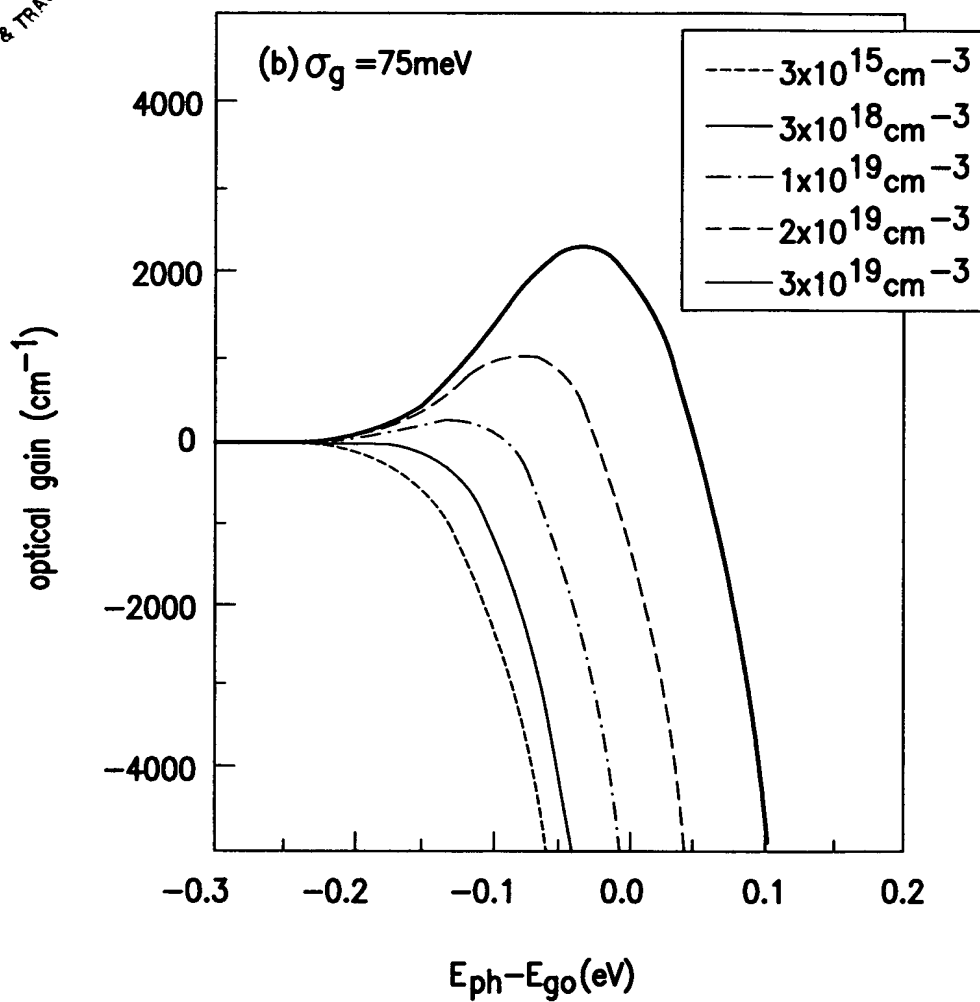
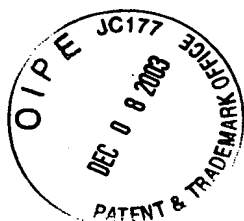


FIG. 5

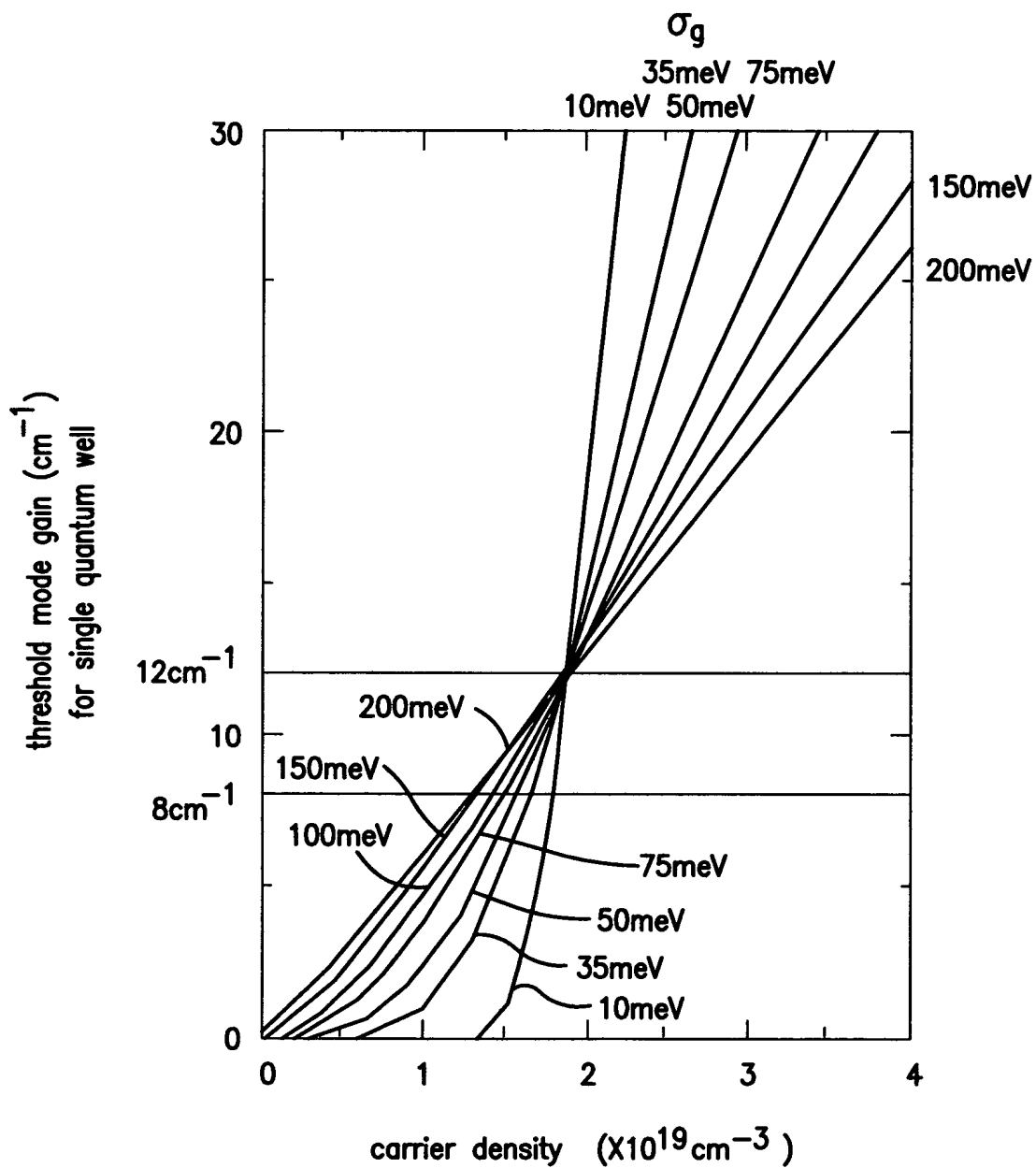
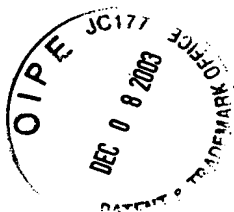
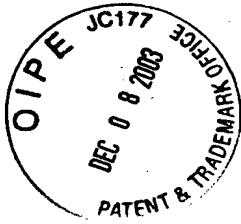


FIG. 6



Appln. No. 09/944,186
Amdt. dated December 8, 2003
Reply to Office Action of July 8, 2003
REPLACEMENT SHEET

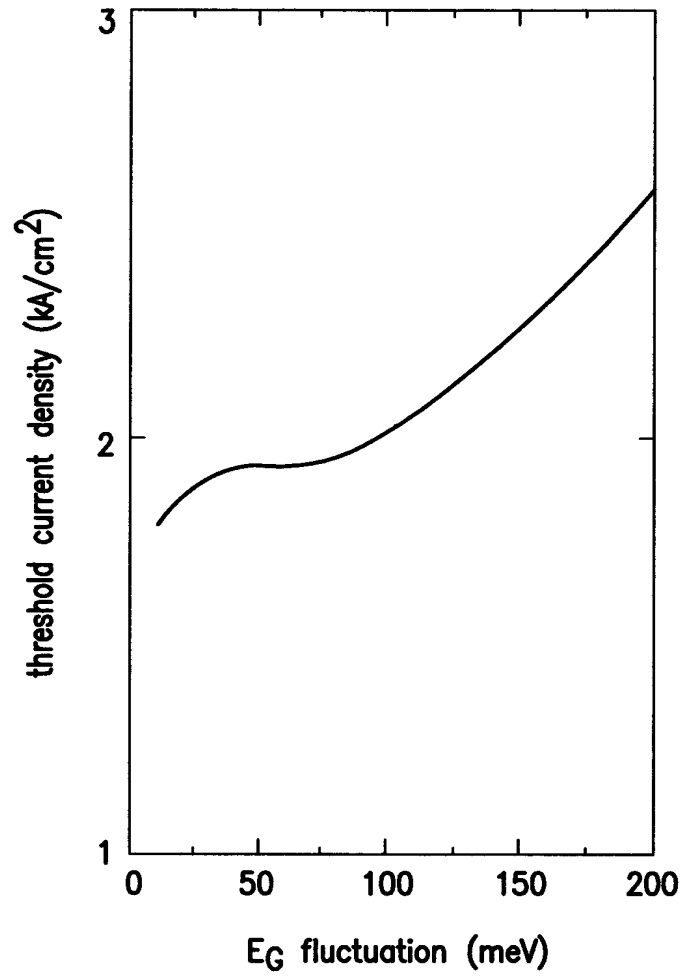


FIG. 7



Appln. No. 09/944,186
Amdt. dated December 8, 2003
Reply to Office Action of July 8, 2003
REPLACEMENT SHEET

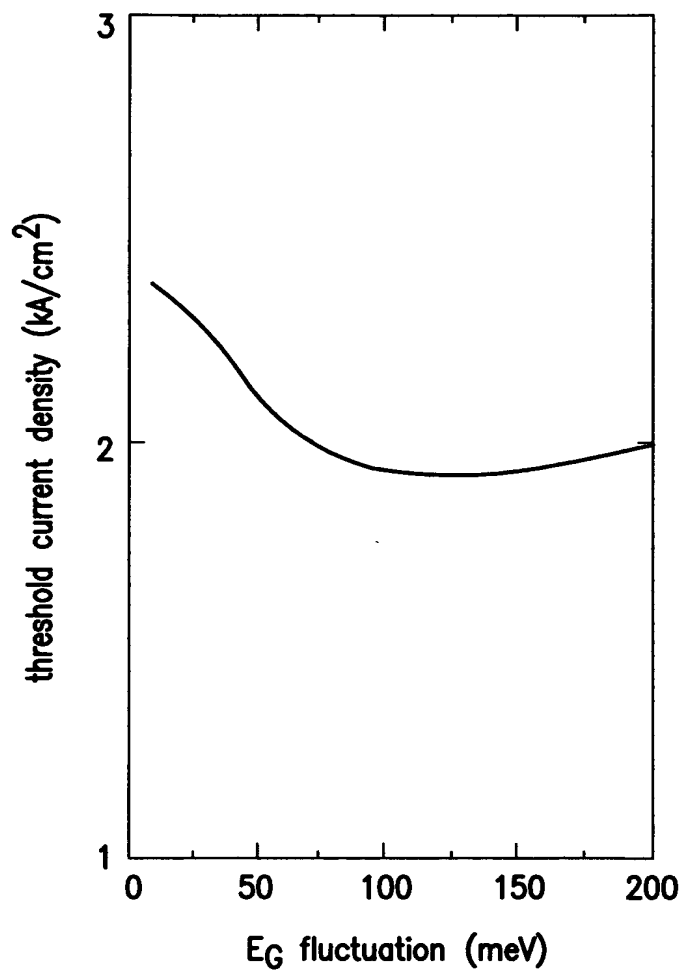


FIG. 8

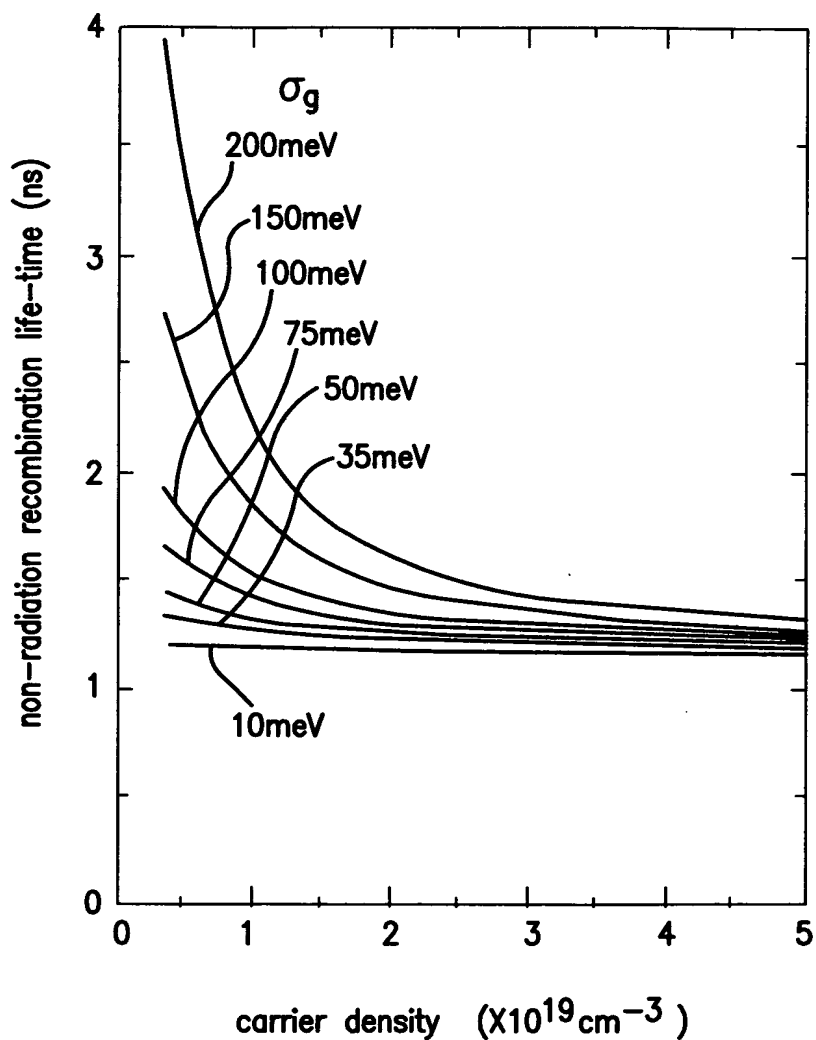
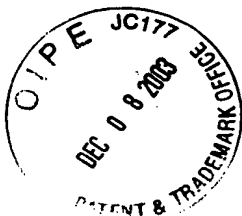


FIG. 9



Appln. No. 09/944,186
Amdt. dated December 8, 2003
Reply to Office Action of July 8, 2003
REPLACEMENT SHEET

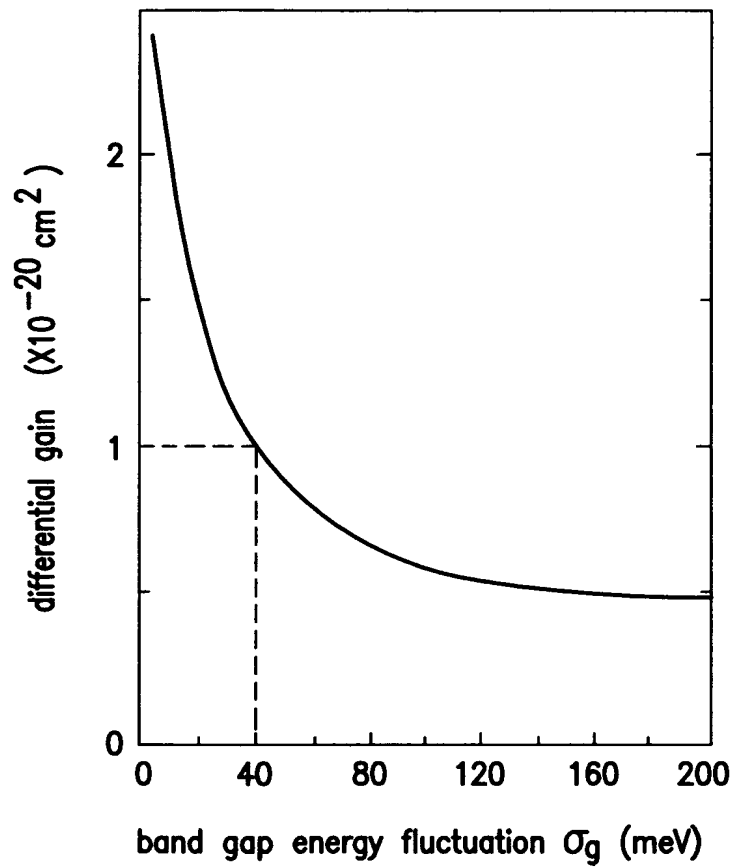


FIG. 10

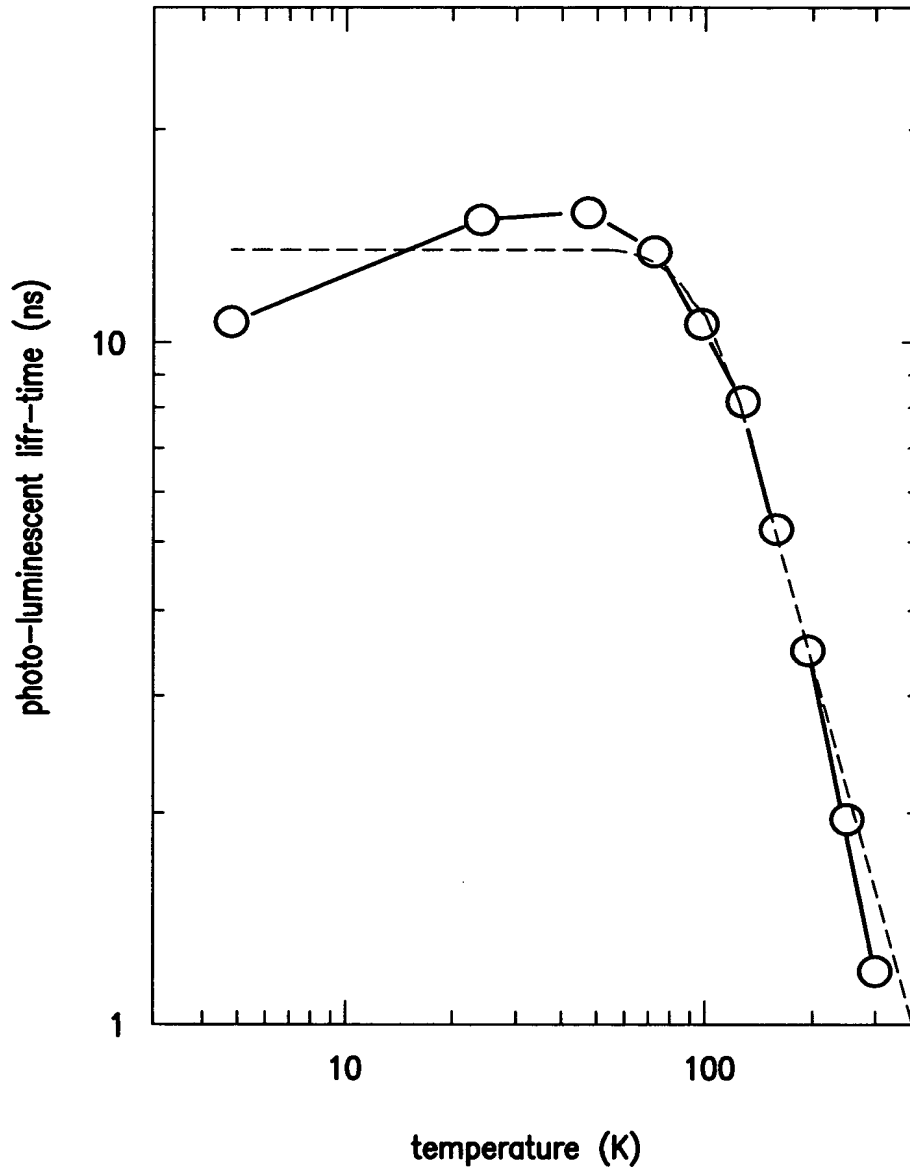
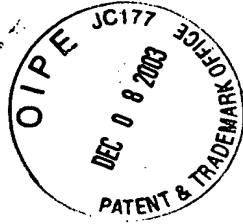


FIG. 11

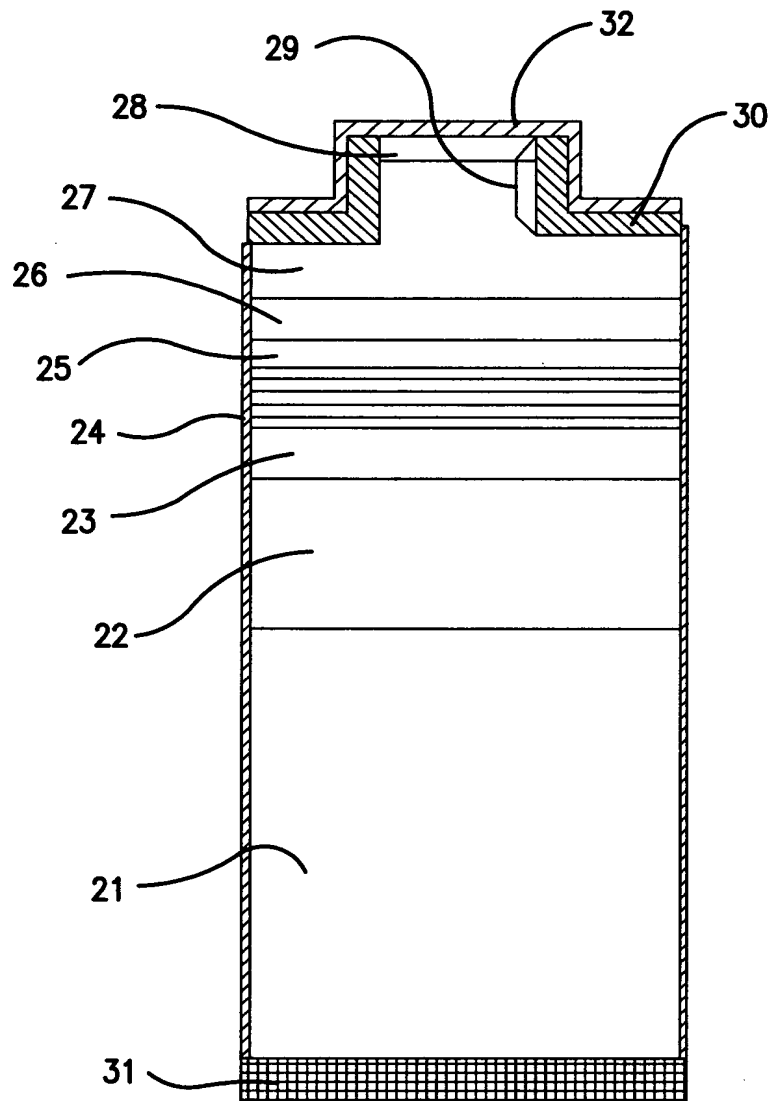
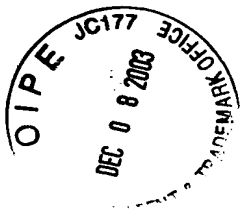


FIG. 12A



Appln. No. 09/944,186
Amdt. dated December 8, 2003
Reply to Office Action of July 8, 2003
REPLACEMENT SHEET

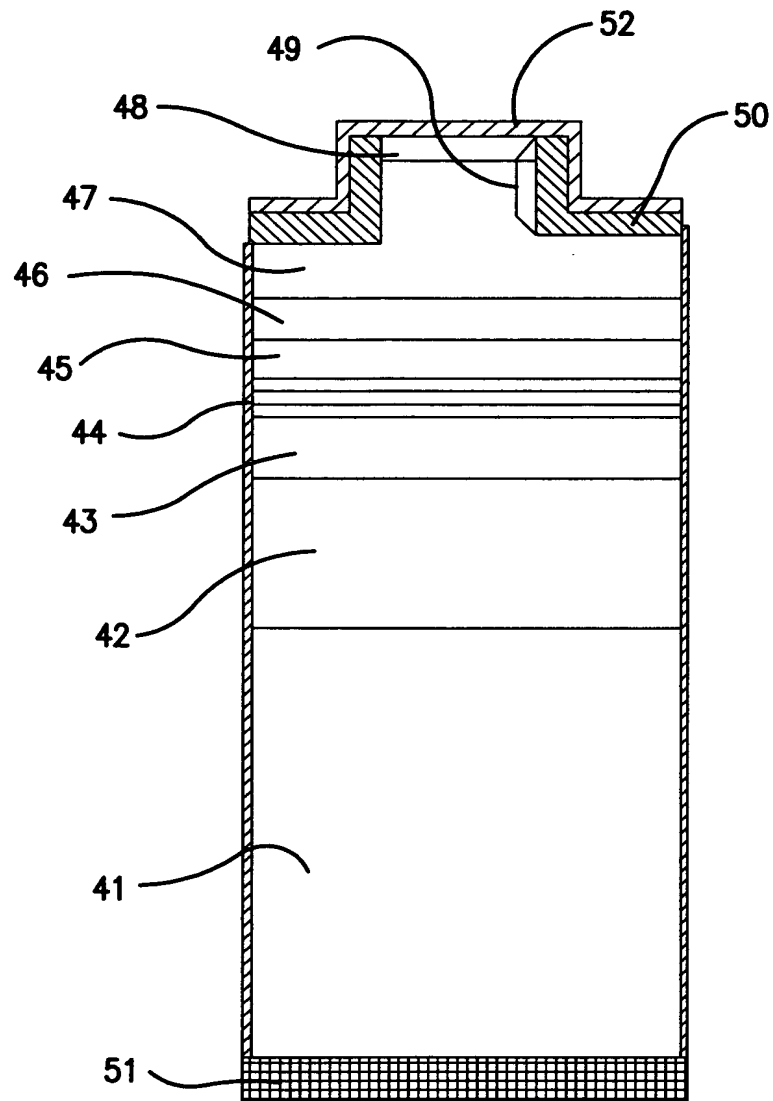


FIG. 12B



Appln. No. 09/944,186
Amdt. dated December 8, 2003
Reply to Office Action of July 8, 2003
REPLACEMENT SHEET

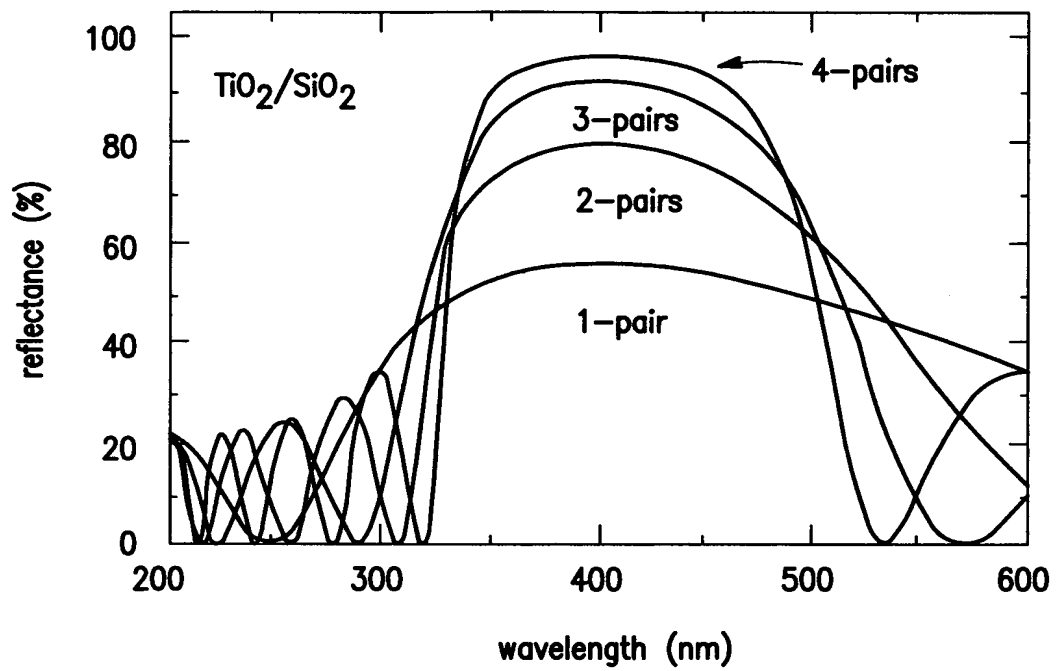


FIG. 13

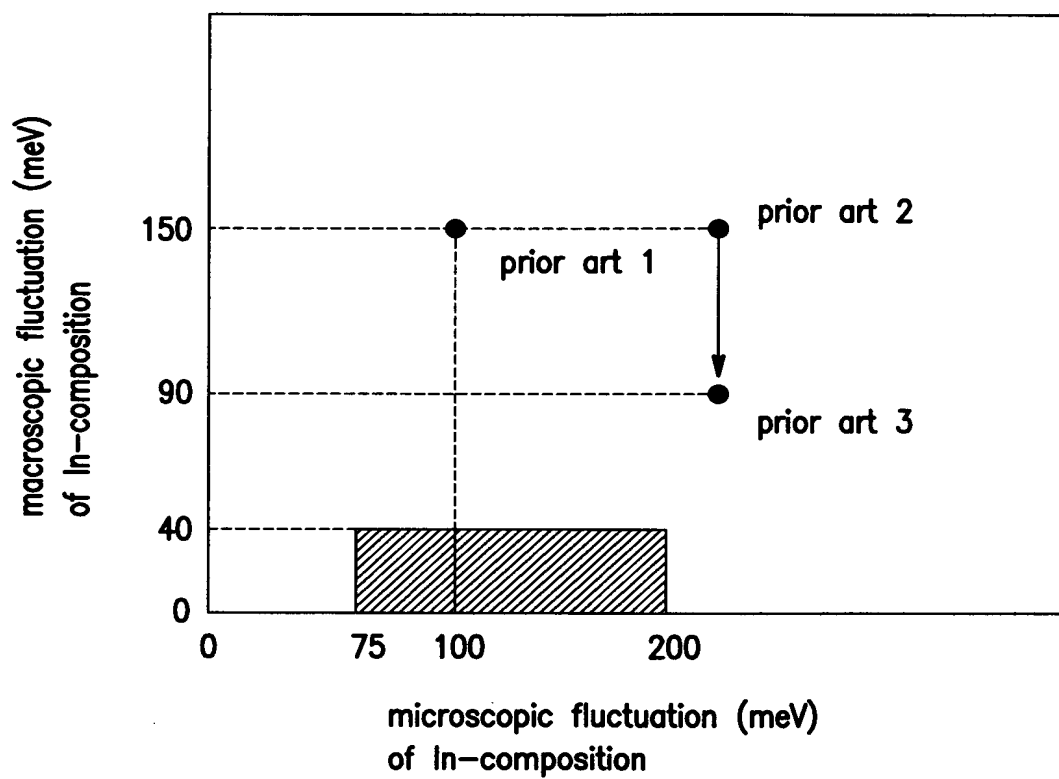


FIG. 14

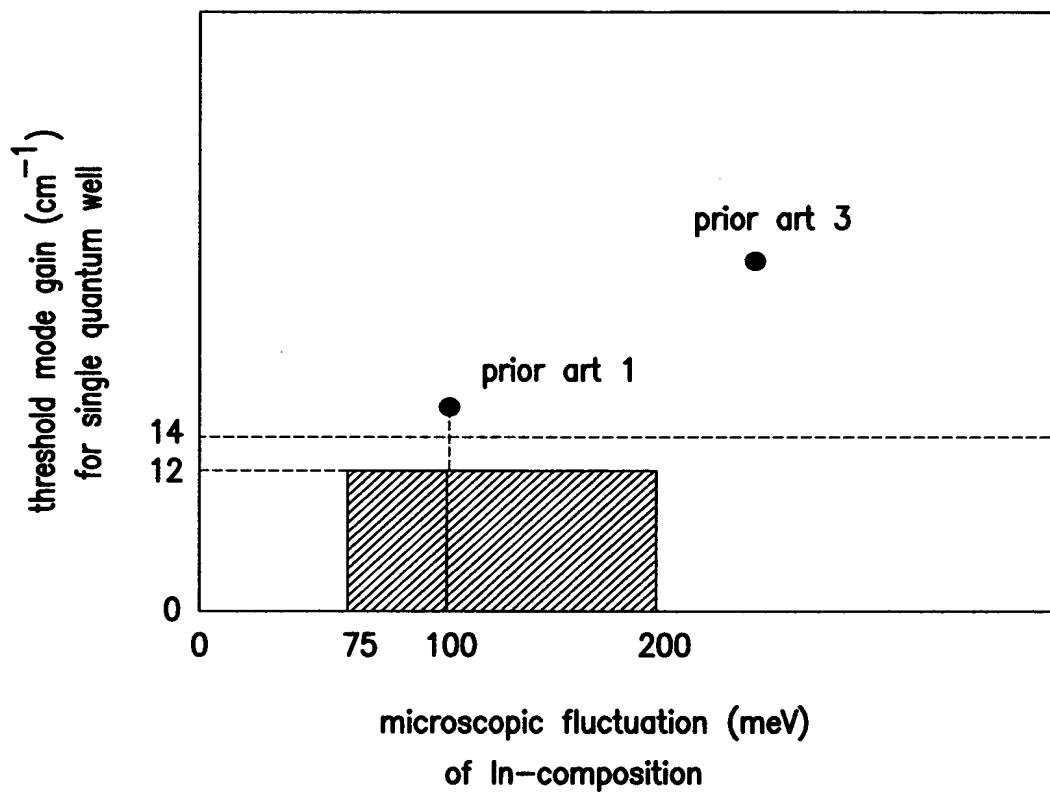


FIG. 15

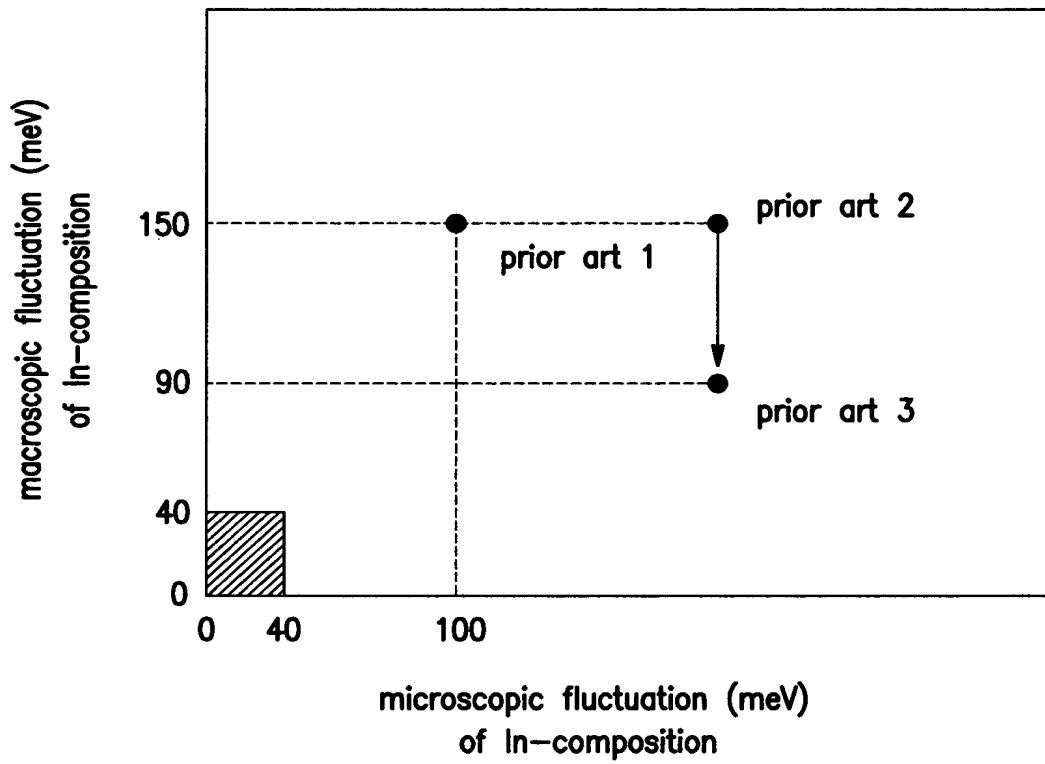


FIG. 16

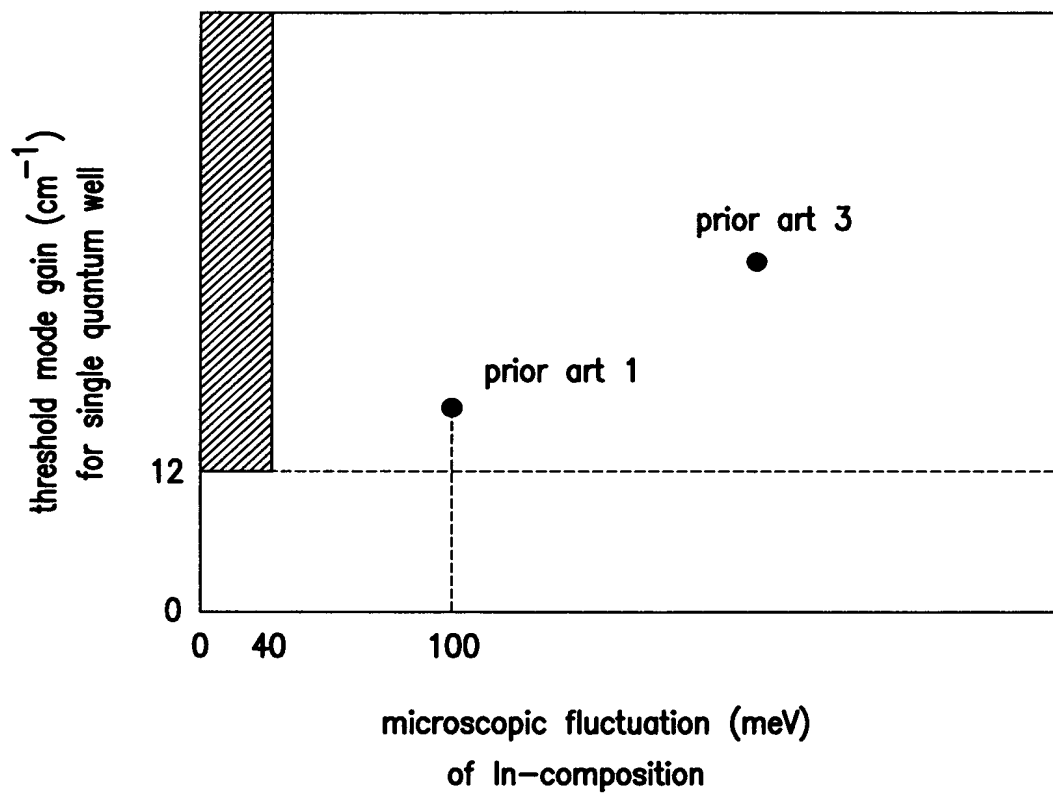
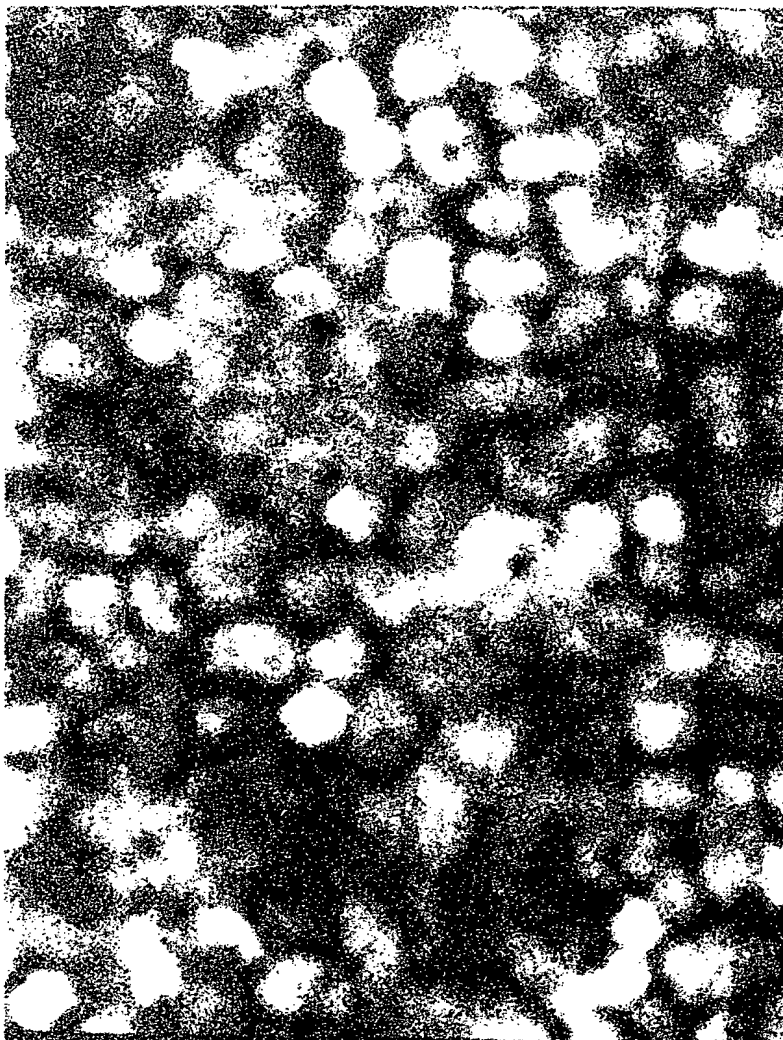
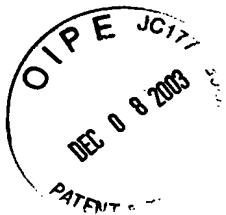


FIG. 17



990nm

FIG. 18